



## WILLIAM T. PECORA AWARD

Philip N. Slater

For his outstanding contributions to science and education, and in special recognition of his sustained leadership, rigor, and service in the absolute calibration of optical remote-sensing instruments.

Dr. Slater has devoted his highly productive scientific career to the design, development, and calibration of airborne and satellite imaging systems, and to educating students in the physical principles of remote sensing. His first major contribution was to design and assemble the first multispectral remote-sensing imaging system carried into Earth orbit by Apollo 9. He developed the rational methodology for absolute radiometric calibration of airborne and satellite optical remote-sensing systems, which has been used to calibrate virtually every major operational space-based system (Landsat, SPOT, AVHRR) and the most sophisticated experimental systems (AVIRIS, HYDICE), that operate in the visible and near-infrared wavelength regions. In recognition of his abilities and rigorous, yet practical, approach to calibration, he was selected to assist in the design, development, and calibration of the Earth Observing System optical imaging systems.

Dr. Slater has been a leading educator in remote sensing. He was instrumental in the development of the University of Arizona's highly respected Center of Remote Sensing, and served as Chairman from 1975 to 1993. He has published more than 100 scientific journal articles, including chapters in both editions of The Manual of Remote Sensing, Optics and Optical Systems. He has advocated a multidisciplinary approach to remote sensing, and his students are from varied academic backgrounds and subsequent professional careers.

Dr. Slater is an active member of several professional societies, and he is a Fellow of the Optical Society of America, the International Society for Optical Engineering, and the Society of Photographic Scientists and Engineers. He has served as editor for several scientific journals. He is a recipient of the Alan Gordon Memorial Award of the American Society of Photogrammetry (1983). His services as a consultant on remote sensing systems and calibration methodologies are highly respected by U.S. Government agencies, as well as international organizations.

For these notable accomplishments, the National Aeronautics and Space Administration and the Department of the Interior take great pleasure in presenting the 1995 William T. Pecora Award to Dr. Philip N. Slater.

Administrator  
National Aeronautics  
and Space Administration

Secretary  
Department of the Interior